

I/O CELL CONFIGURATION FOR MULTIPLE I/O STANDARDS

ABSTRACT OF THE DISCLOSURE

Circuitry is provided to individually configure each I/O of an integrated circuit to
5 be compatible with a different LVTTL I/O standards. This can be done with only one I/O supply
voltage, where that voltage is the highest of the I/O voltages needed in a particular application.
The circuitry operates by regulating the output voltage of the I/O cell so that it is above the VOH
and below the maximum VIH for the LVTTL standard for which it will comply with. Since each
I/O cell is individually configurable, any I/O can drive out to any LVTTL specification.

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